

# Route 11/460

C O R R I D O R   S T U D Y



April 2013



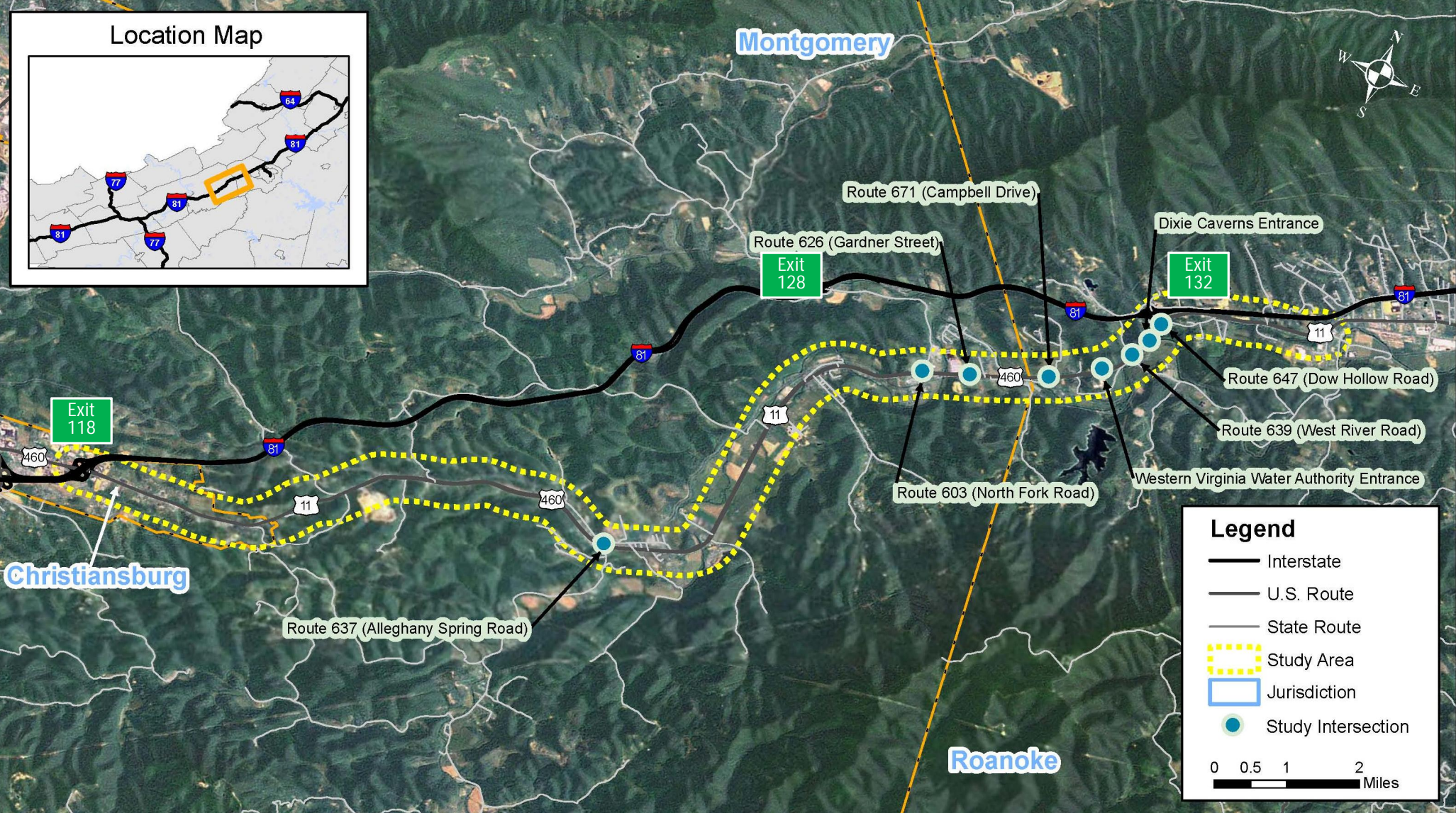
# Welcome to the Route 11/460 Corridor Study Final Public Workshop

- Overview of 1<sup>st</sup> Public Workshop
- What Have We Been Doing Since Our Last Meeting in January?
- Proposed Recommendations
- Future Conditions Traffic Results
- How Can You Help?



# Route 11/460 Study Area

From I-81 (Exit 118) to Technology Drive (~17 miles)







# Overall Study Objectives

- Develop consensus-based short-, mid-, and long-term **recommendations** to address all modes of transportation
- Establish a future **vision** for the corridor



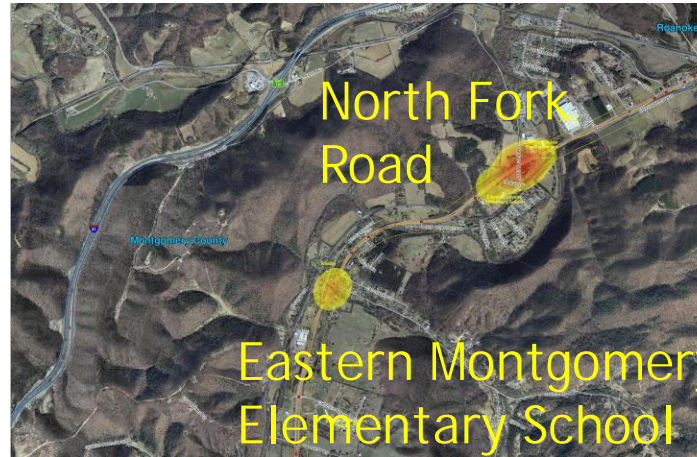
# Route 11/460 Public Meeting #1

- Location: Elliston Volunteer Fire Dept
- Date: Tuesday, January 22, 2013
- Time: 5:00 PM – 7:00 PM
- Approximate Attendance: 50
- Number of Questionnaires Received: 51
- Result: Received valuable feedback on existing concerns within the corridor

# Congestion and Safety

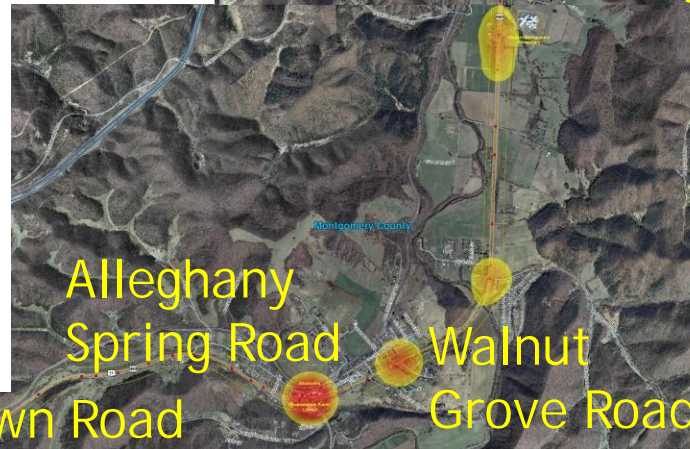


Dow Hollow Road



North Fork Road

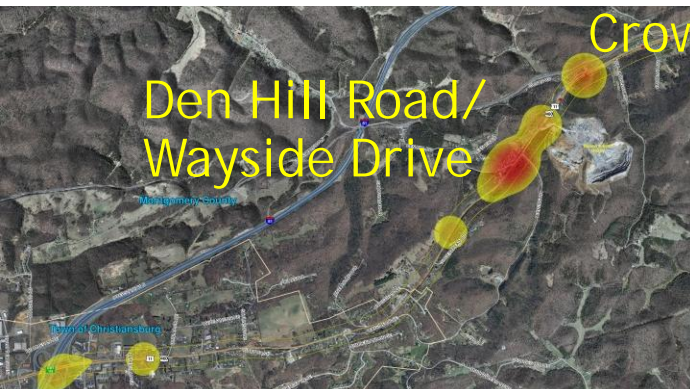
Eastern Montgomery Elementary School



Allegheny Spring Road

Walnut Grove Road

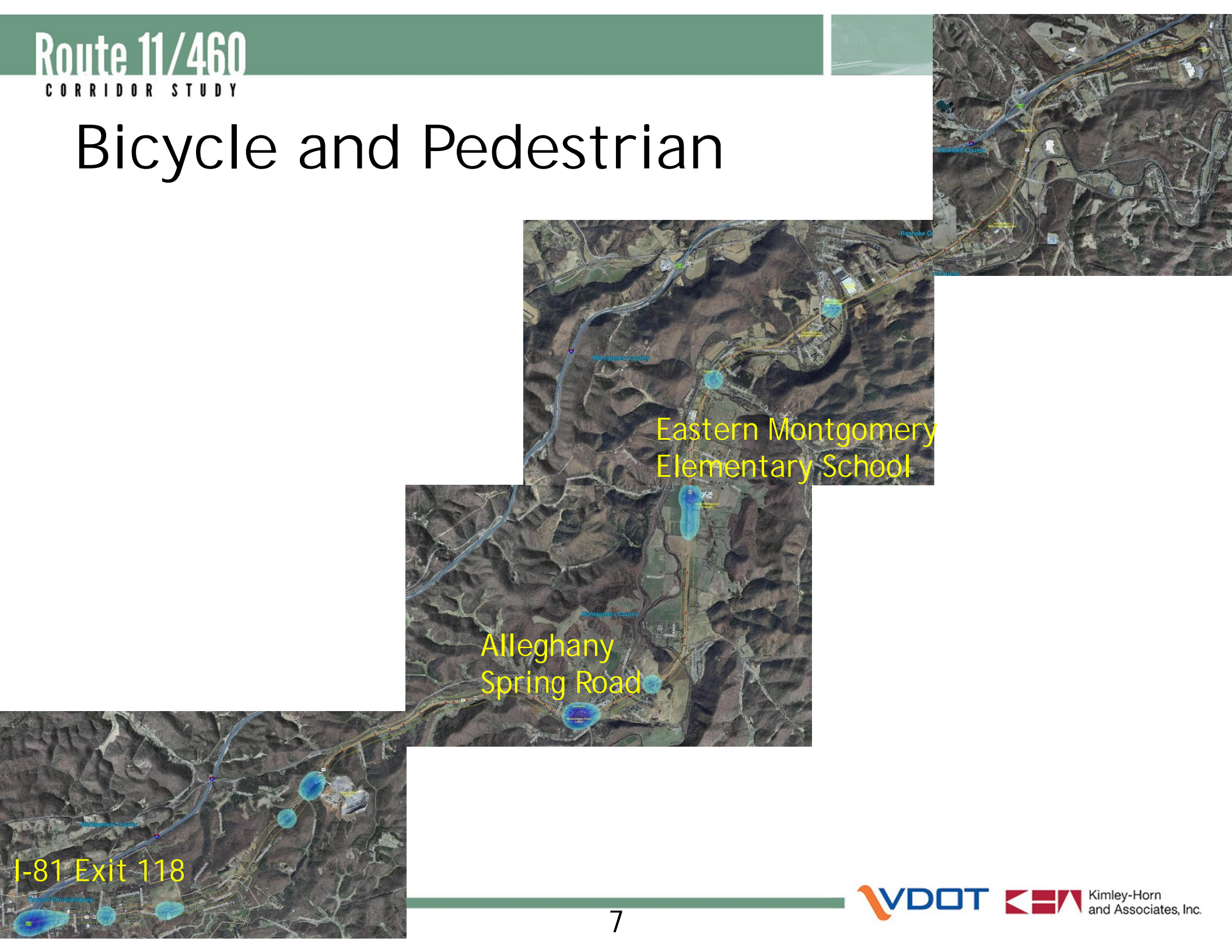
Crown Road



Den Hill Road/  
Wayside Drive



# Bicycle and Pedestrian





# Main Concerns from Public

- Lack of shoulder, turn lanes, and traffic signals
- High travel speeds
- Limited sight distance
- Bicycle and pedestrian accommodations are nonexistent
- Connection to existing bicycle routes is desired
- High traffic volumes when vehicles are detoured onto Route 11/460 from I-81
- Greatest concern for future:
  - Safety
  - Congestion





# Public Suggested Improvements

- Paved multi-use path
- Lighting
- Additional travel lanes and turn lanes
- Decreased speed limits

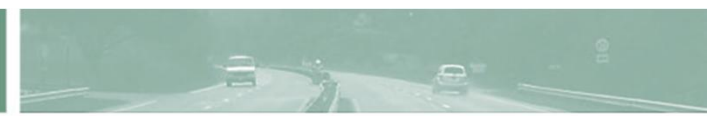




# Proposed Recommendations

- **Short-Term Recommendations** (6-12 months)
  - Typically less than \$100k per improvement
  - Little to no right-of-way impacts
- **Mid-Term Recommendations** (1-5+ years)
  - Typically less than \$5 million per improvement
  - Preliminary engineering or design, right-of-way acquisition, and/or minor disturbance to operations.
- **Long-Term Recommendations** (5-20+ years)
  - Typically \$5 - 20+ million
  - Extensive design, right-of-way acquisition, utility relocation, and permitting.
- Right-of-way can impact schedule and cost





## Short-Term Recommendations (6-12 months)

ID	Proposed Improvement
S1	Cut back vegetation at Dow Hollow Road to improve sight distance
S2	Signing and striping improvements at Dow Hollow Rd/Route 11/460
S3-S15	Remove, replace, and install additional signs throughout corridor
S16	Provide lighting at study area intersections and through the villages of Shawsville and Elliston (if power is readily available)
S17 – S19	Access Management
S20	Replace damaged guardrail on northwest corner of the Route 11/460 and Dow Hollow Road intersection



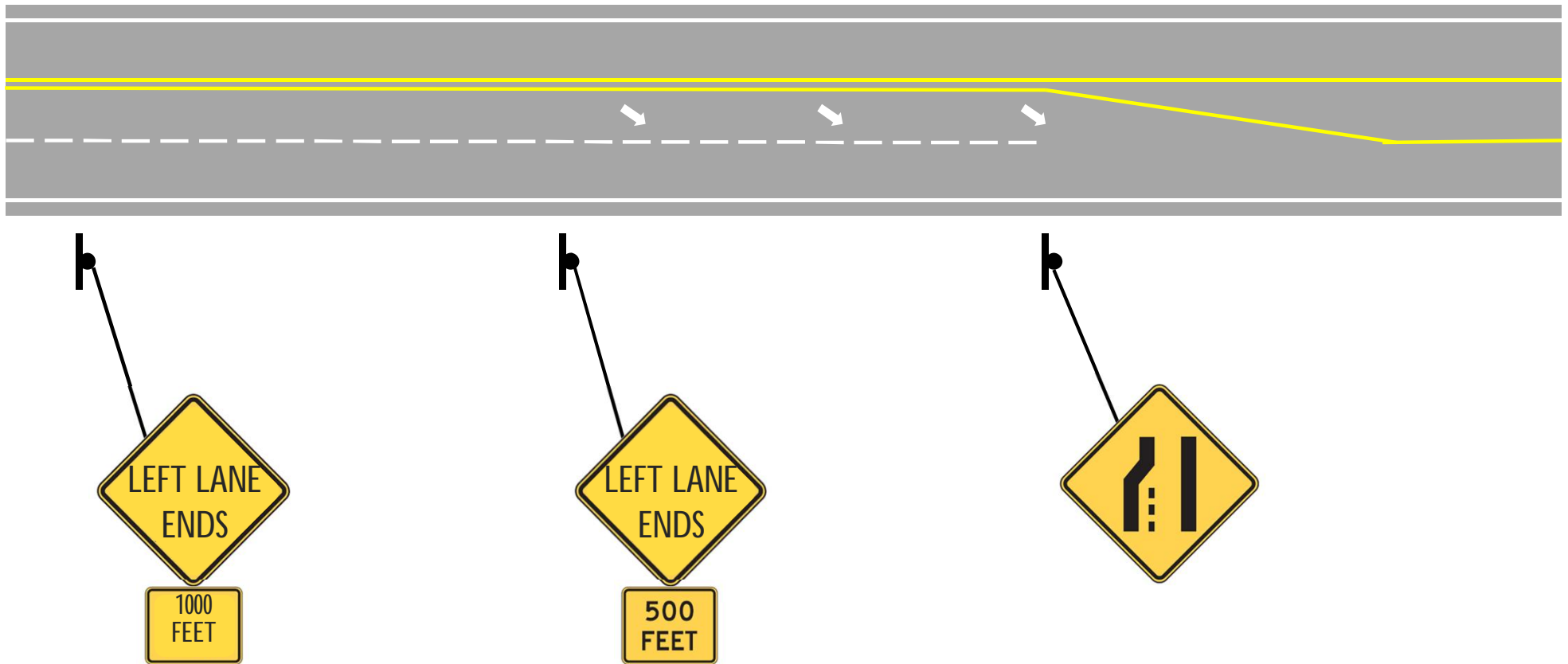
# Striping Improvement Example







# Improve Signing/Pavement Markings at Lane Drop Locations





# Access Management







# Relocate Gas Station Entrance





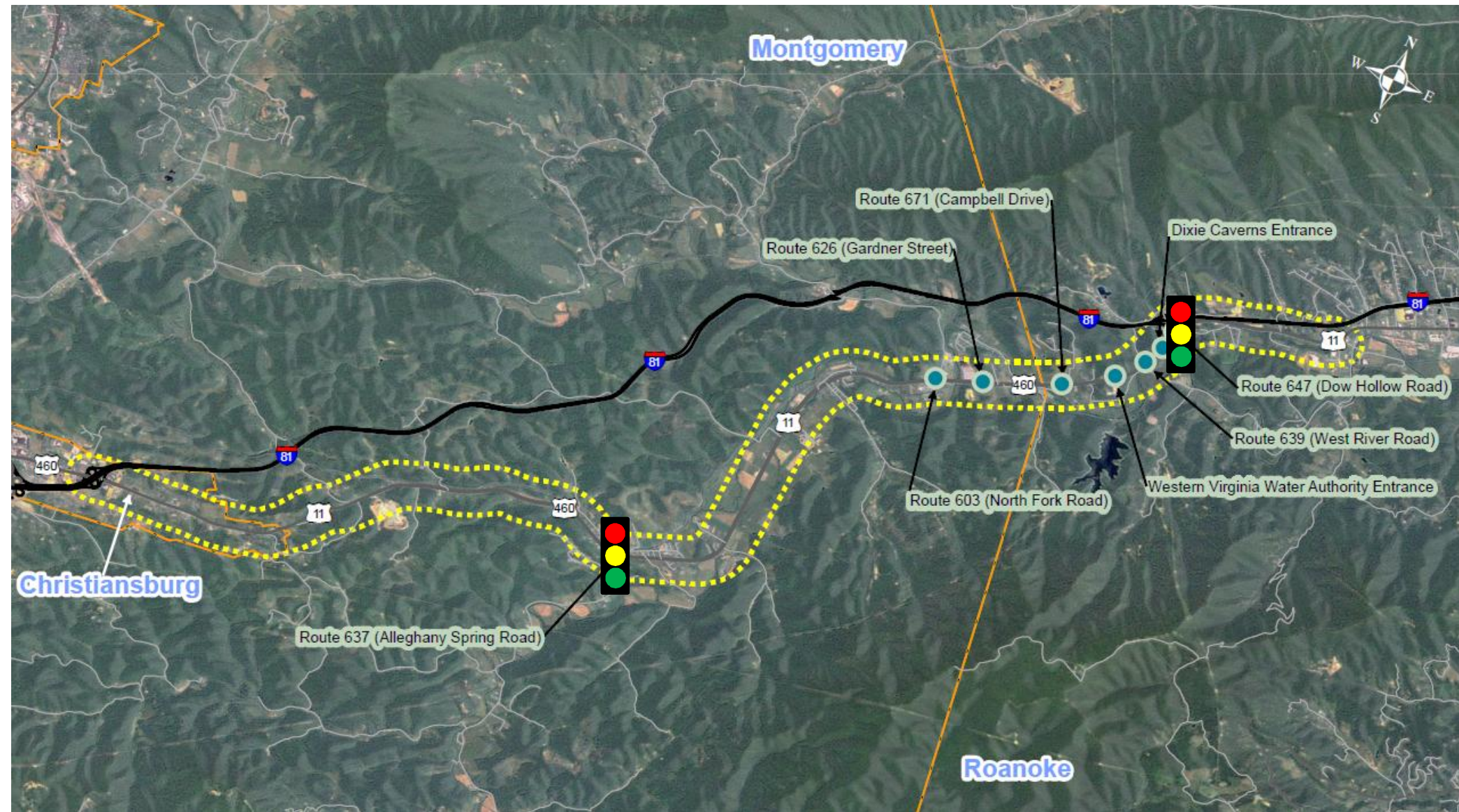
## Mid-Term Recommendations (1-5+ years)

ID	Proposed Improvement
M1	Conduct traffic signal warrant analysis at Alleghany Spring Road and Dow Hollow Road, install traffic signal if necessary
M2	Construct/extend right- and left-turn lanes at identified locations
M3	Maintain, close, relocate, and modify crossovers at identified locations
M4	Upgrade the existing non-standard guardrail end treatments
M5	Shoulder maintenance
M6	Provide lighting at study area intersections and through the villages of Shawsville and Elliston where power is not readily available
M7	Upgrade all signing to meet current MUTCD standards
M8	Provide Park and Ride lot at I-81 Exit 132
M9	Perform a speed study through Shawsville and Elliston
M10	Develop an incident management plan for I-81
M11	Construct bicycle/pedestrian improvements within Shawsville and Elliston





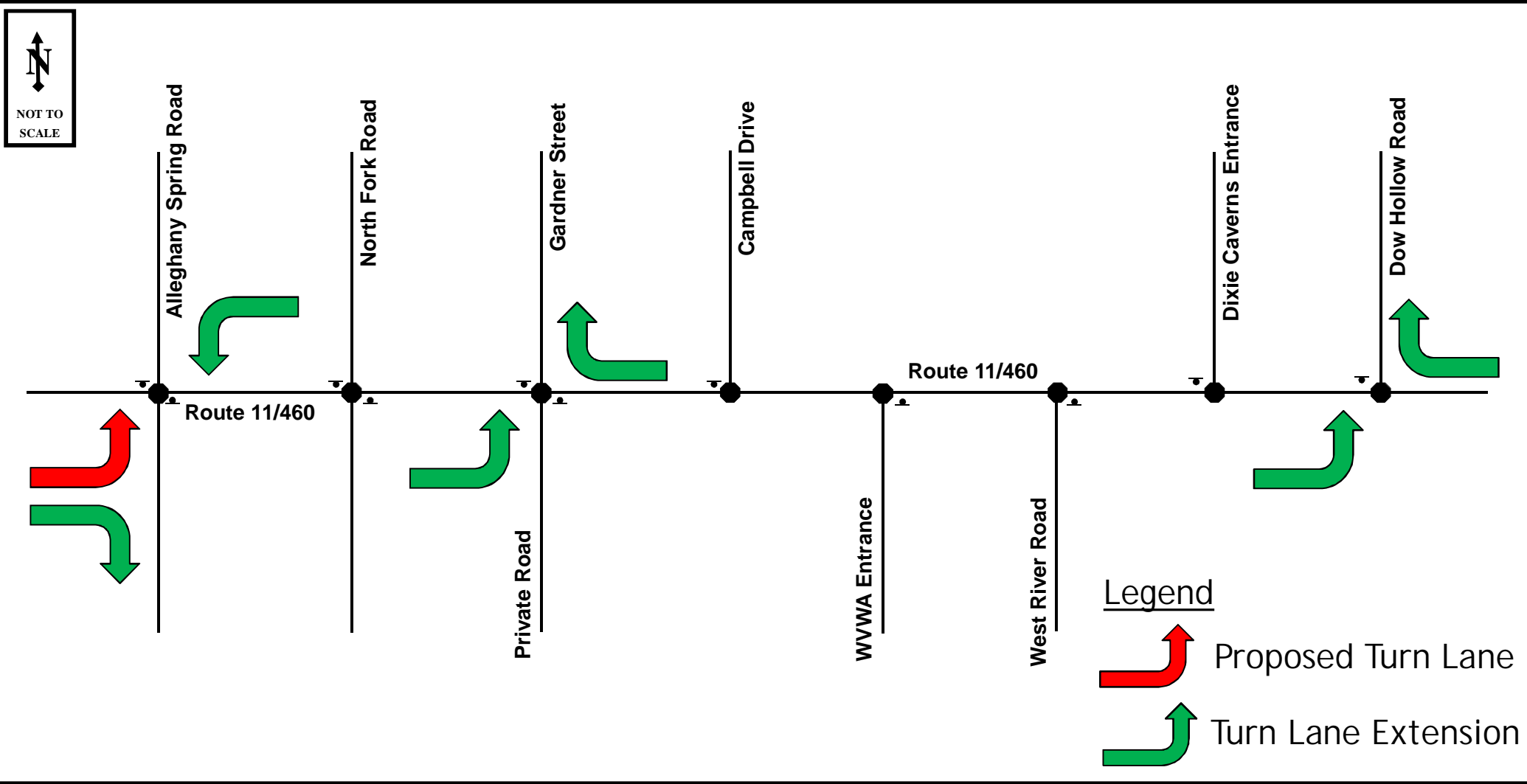
# Perform Signal Warrant Analysis







# Proposed Turn Lanes





# Upgrade Guardrail End Treatments

Existing



Proposed





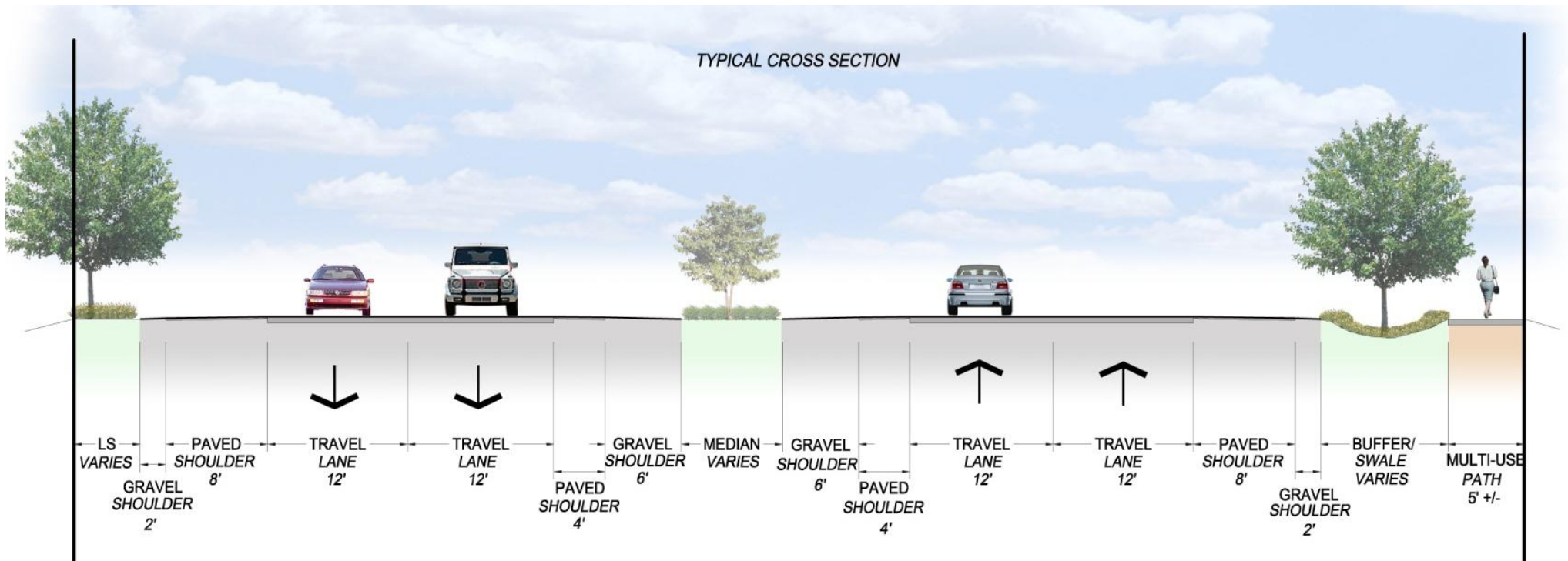
## Long-Term Recommendations (5-20+ years)

ID	Proposed Improvement
L1	Widen travel lanes to 12 feet with accompanied 10-13 foot shoulder and rumble strips along entire corridor
L2	Construct VDOT's planned project to improve North Fork Road
L3	Improve clear zone along Route 11/460
L4	Intersection reconstruction – WVWA Entrance
L5	Intersection reconstruction – Den Hill Road
L6	Monitor traffic growth and incremental improvements to determine if expansion of existing 3-lane section to 4-lane facility is warranted
L7	Following the North Fork Road improvements, ITS technologies should be considered to assist with I-81 incident management
L8	Construct bicycle lane, sidewalk, and/or paved multi-use path (where feasible)





# Proposed Typical Cross Section





# Shoulder Improvements





# Bicycle and Pedestrian Improvements



Paved Multi-use Path



Sidewalk



Bike Lane

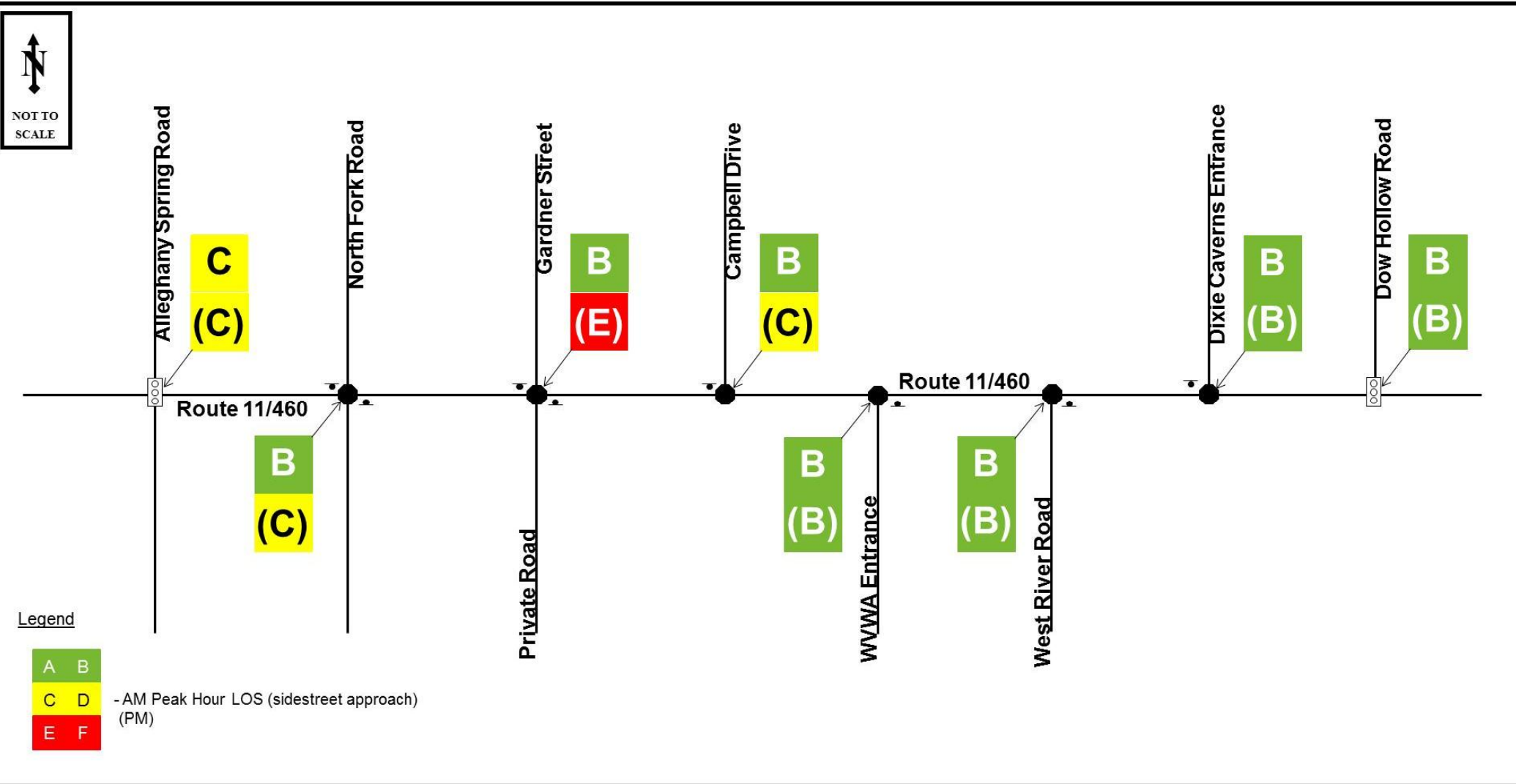


Paved Multi-use Path





# Future 2035 Proposed LOS





# We're here to listen to you...

- Use handouts and sticky notes to provide:
  - Comments
  - Concerns
  - Improvements
  - Priorities

... to the proposed recommendations
- Don't forget to think **creatively** and **long-term** – this plan is for today, tomorrow, and also for 30 years from now.



# Next Steps

- Comments from this public meeting will be incorporated into a final report.
- Final report completed by end of April.

Task	Month								
	2012							2013	
	Aug	Sept	Oct	Nov	Dec	Jan	Feb	Mar	Apr
Public Involvement						★			★
Data Collection									
Existing Conditions									
Modeling									
Transportation Needs									
Concept									
Evaluation									
Draft / Final Report									

★ - Citizen Information Meeting